INTERNATIONAL SEARCH REPORT

Internal Application No PCT/US2004/004011

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C10G29/20 C10L1/22 C10L1/18	3						
According to	o International Patent Classification (IDC) or to both national electrification	riles and IDO						
	o International Patent Classification (IPC) or to both national classifica SEARCHED	ation and IPC						
	ocumentation searched (classification system followed by classification	on symbols)						
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in the fields so	aarched					
Electronic d	ata base consulted during the International search (name of data base	se and, where practical, search terms used)					
EPO-Internal								
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with Indication, where appropriate, of the rele	evant passages	Relevant to claim No.					
Х	US 4 734 525 A (GREEN MICHAEL J) 29 March 1988 (1988-03-29) claims 14,15; examples 1-3,5-8	-	1,2,4-9, 11,14					
X	US 4 096 085 A (HOLOMAN JR SMALLW AL) 20 June 1978 (1978–06–20) claims 1,7	JOOD ET	1-3					
Х	US 6 267 939 B1 (NAGY ZOLTAN ET 31 July 2001 (2001-07-31) example 4A2	AL)	1-3,8,9					
Α	WO 98/02501 A (BAKER HUGHES INC) 22 January 1998 (1998-01-22) page 3, line 9 - line 14; claim 1	ı	16-25					
		-/						
	ner documents are listed in the continuation of box C.	Patent family members are listed t	n annex.					
° Special ca	tegories of cited documents :	"T" later document published after the Inte	mational filing date					
consid E" earlier o	*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international *C** *C							
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "V" document of aptiquies relevance; the claimed inventions are invented in aptiquies relevance; the claimed inventions are invented in aptiquies relevance; the claimed inventions are invented invented inventions.								
"O" docume	ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an involve an involve document is combined with one or mo	ventive step when the ore other such docu-					
other r "P" docume later th	ent published prior to the international filing date but	ments, such combination being obvious in the art. *&* document member of the same patent	us to a person skilled					
Date of the	actual completion of the international search	Date of malling of the international sea	rch report					
6	December 2004	13/12/2004						
Name and n	nalling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer						
	NL – 2280 HV RIJSWIJK Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Gilliquet, J-N						

INTERNATIONAL SEARCH REPORT

Internation No
PCT/US2004/004011

	PCT/US2004/004011	
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Cilation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
The second state of the second	restant to defin No.	
A EP 0 538 819 A (BAKER HUGHES INC) 28 April 1993 (1993-04-28) cited in the application claims 1,2; example 1	16-25	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: -

Present claims 1 and 4 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds:

1,4-diazabicyclo(2.2.2)octane,1,8-diazabicyclo(5.4.0)undec-7-ene, 1,5-diazabicyclo(4.3.0)non-5-ene and mixtures thereof Compound (B): epoxides.

those compounds prepared in the examples and closely related homologous compounds.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

International application No. PCT/US2004/004011

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

information on patent family members

Internation No
PCT/US2004/004011

				004/004011
Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 4734525 A	29-03-1988	AU	570220 B2	10-03-1988
•		AU	1938783 A	29-03-1984
		AU	610093 B2	16-05-1991
		AU	8050787 A	17-03-1988
		CA	1221106 A1	28-04-1987
		DE	3360242 D1	11-07-1985
		EP	0104875 A1	04-04-1984
		JP	3058336 B	05-09-1991
		JP	59098034 A	06-06-1984
		NZ	205646 A	30-04-1985
		ZA	8307056 A	29-05-1985
US 4096085 A	20-06-1978	NONE		
US 6267939 B	l 31-07-2001	HU	9701269 A2	28-07-1999
		AU	8553398 A	16-02-1999
		BR	9810763 A	20-11-2001
		EP	1001838 A1	24-05-2000
		WO	9904885 Al	04-02-1999
		JP	2001513417 T	04-09-2001
•		NO	20000325 A	21-01-2000
WO 9802501 A	22-01-1998	AU	719046 B2	04-05-2000
		AU	3652697 A	09-02-1998
		CA	2231659 A1	22-01-1998
		DK	882112 T3	13-01-2003
		EP	0882112 A1	09-12-1998
		NO	981090 A	11-05-1998
		WO	9802501 A1	22-01-1998
		US	6339153 B1	15-01-2002
		US	6117310 A	12-09-2000
EP 0538819 A	28-04-1993	AU	2714192 A	22-04-1993
		EP	0538819 A2	28-04-1993
		JP	5279674 A	26-10-1993
		MX	9206012 A1	01-04-1993
		NO	924067 A	22-04-1993
		US	5344555 A	06-09-1994